

Response
Claims

Claims 1-4 (cancelled)

5. (amended) A device for sealing a cavity comprising an interior surface, the device comprising:

a sleeve comprising a longitudinal axis and an insertion end;

a molded skirt integrally formed on the sleeve;

wherein the skirt comprises a first integral section extending in a plane which is substantially perpendicular to the longitudinal axis; and

wherein the skirt comprises a second integral section comprising an interior surface and a sealing surface that extends along the length of the sleeve in a direction opposite to the insertion end such that there is a gap between the interior surface and the sleeve;

wherein the sealing surface has substantially the same shape as the interior surface of the cavity so that the skirt deforms only a small amount to form a seal between the sealing surface and the interior surface of the cavity when the sleeve is subsequently inserted into the cavity; and

wherein the molded skirt is constructed from an electrically insulating material.

6. (cancelled)

7. (amended) The device of claim 5, further comprising:

a wiping land located between the molded skirt ~~assembly~~ and the sleeve insertion end.

8. (amended) A device for sealing a cavity comprising an interior surface, the device comprising:

a sleeve comprising a longitudinal axis and an insertion end;

a molded skirt integrally formed on the sleeve;

wherein the skirt comprises a first integral section extending in a plane which is substantially perpendicular to the longitudinal axis; and

wherein the skirt comprises a second integral section comprising an interior surface and a sealing surface that extends along the length of the sleeve in a direction opposite to the insertion end such that there is a gap between the interior surface and the sleeve;

wherein the sealing surface has substantially the same shape as the interior surface of the cavity so that the skirt deforms only a small amount to form a seal between the sealing surface and the interior surface of the cavity when the sleeve is subsequently inserted into the cavity; and

wherein the molded skirt is constructed from an electrically insulating, elastomeric material.

9. (previously amended) A method of sealing an opening of a cavity comprising the steps of:

inserting a portion of a structure through a sleeve of a sealing assembly, the sealing assembly having a molded skirt constructed from an electrically insulating, elastomeric material;

inserting a section of the structure including portion of the structure inserted through the sealing assembly into the cavity through the cavity opening so that the molded skirt is in sealing contact with the inside surface of the cavity wherein the molded skirt comprises a sealing surface that has substantially the same shape as the interior surface of the cavity so that the skirt deforms only a small amount to form a seal between the sealing surface and the interior surface of the cavity.

10. (original) The method of sealing an opening of a cavity of claim 9, wherein said sealing assembly also comprises a wiping land.

11. (original) The method of sealing an opening of a cavity of claim 10, further comprising the step of:

cleaning a portion of interior surface of said cavity using said wiping land.

12. (cancelled)

13. (new) A high pressure seal for an electrical connector for sealing a connector cavity having an interior surface, the high pressure seal comprising:

a sleeve having longitudinal axis and an insertion end;

a skirt integrally formed on the sleeve;

the sleeve and the skirt being constructed from an electrically insulating, elastomeric material,

the skirt having a first integral section extending in a plane which is substantially perpendicular to the longitudinal axis of the sleeve;

the skirt having a second integral section comprising an interior surface and a sealing surface that extends along the length of the sleeve in a direction opposite to the insertion end such that there is a gap between the interior surface and the sleeve; and

the sealing surface having substantially the same shape as the interior surface of the connector cavity so that the skirt deforms only a small amount to form a seal between the sealing surface and the interior surface of the cavity when the sleeve is subsequently inserted into the connector cavity such that the sealing surface is not substantially wrinkled when the sealing surface is in sealing contact with the interior surface of the connector cavity.

14. (new) The high pressure seal as defined in claim 13 wherein the second integral section of the skirt has a length that is less than the length of the sleeve.

15. (new) The high pressure seal as defined in claim 14 wherein the sleeve has a wiping land located between the second integral section of the skirt and the sleeve insertion end.

16. (new) A method of sealing an opening of an electrical connector cavity having an interior surface comprising the steps of:

inserting an electrical connector through a sleeve of a sealing assembly so that the sealing assembly is attached to the electrical connector, the sleeve of the sealing assembly having a molded skirt, the sleeve and the molded skirt being constructed of an electrically insulating, elastomeric material;

inserting the electrical connector and the attached sealing assembly into the connector cavity through the opening of the connector cavity so that the molded skirt is in sealing contact with the inside surface of the connector cavity, the molded skirt comprises a sealing surface that has substantially the same shape as the interior surface of the connector cavity so that the skirt deforms only a small amount to form a seal between the sealing surface and the interior surface of the connector cavity;

the sealing surface having substantially the same shape as the interior surface of the connector cavity so that the skirt deforms only a small amount to form a seal between the sealing surface and the interior surface of the connector cavity when the sleeve is inserted into the connector cavity such that the sealing surface is not substantially wrinkled when the sealing surface is in sealing contact with the interior surface of the connector cavity.